## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/716, 793 A
Source:	TFW16
Date Processed by STIC:	02/17/2006
•	

## ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 02/17/2006
PATENT APPLICATION: US/10/716,793A TIME: 15:06:37

```
3 <110> APPLICANT: Yaver, Debbie
             Nham, Peter
     6 <120> TITLE OF INVENTION: Promoter Variants For Expressing Genes In A Fungal Cell
     8 <130> FILE REFERENCE: 10351.200-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/716,793A
C--> 10 <141> CURRENT FILING DATE: 2003-11-18
    10 <150> PRIOR APPLICATION NUMBER: 60/437,314
    11 <151> PRIOR FILING DATE: 2002-11-18
    13 <160> NUMBER OF SEQ ID NOS: 70
    15 <170> SOFTWARE: PatentIn version 3.2
    17 <210> SEQ ID NO: 1
    18 <211> LENGTH: 2112
    19 <212> TYPE: DNA
   . 20 <213> ORGANISM: Fusarium venenatum
    22 <400> SEQUENCE: 1
                                                                               60
    23 cctcacccat ctcaacacct gtcgtgtgct cacttgacta cttctttgaa ccagctcgcc
                                                                              120
    25 atcggactag tcgaacaagc ttgtcgcccc catacagatg aatgtatgtt taaagctaca
                                                                              180
    27 tgatcagcct gaaccgagca taactcgagt gccgagactc ctctgatgta tatcgagatg
                                                                              240
    29 aatgacaaac ctacgggtcc gttcttgaga agtggcctga gatttctcac ttggtgagaa
    31 aaaggacggg cgagcgggag cctgagtcag aagaaatacc tgtctccttg gatctcacat
                                                                              300
    33 gacggtgttg tggaagagtg catctattgt cattgctgga gtgacggcag agtaggggtc
                                                                              360
     35 taaagaaacc catactgagt agagatggag aagacaacaa aagcccaaga cgacagagac
                                                                              420
     37 gacagaagat taaagctatc agagcgagac tatatcacta ttcgaaacct gcgagtaatt
                                                                              480
     39 taacaagaag tacacatcat cattgttatc aattcgacga agacatggtc gaaaattctt
                                                                              540
     41 gcggtgtata tgtctgttgt atatgggcct gggcattgtt atttttcgcc gtctttatgt
                                                                              600
                                                                              660
     43 gtactaacac ttccattgat accccagaac aaaagatgaa cgcttaaaca gcaccaaaat
                                                                              720
     45 caggagaaga atggcgctgc tctaggtatg cttctgggat aaaaagcgat gttgatacct
                                                                              780
     47 ctcagaaaag aagtgatttg aagttgaatc aaacaaatag ccgatggagc gatctgaagg
                                                                              840
     49 ggtggcagac ctgctacgcg catttaggca aggcatcaac tcggcagatg attaagaaag
     51 gttttgtagg ttcacgtgtt gtgttgtgtt ccattataag tttataacct tgctaagatg
                                                                              900
     53 caacgactct gacctcaggg tgttagaaaa attgaccact aggagcataa gtgacgaaat
                                                                              960
     55 tcqqqqatca aqacaataqa taqtttcatt ttcatgtgct cctacgtctt ttcacgtaat
                                                                             1020
                                                                             1080
     57 qtttcttata aaaaaaaaqa taqcattqtc tctttggtga aaagagaaaa aaagatgtta
     59 cgacgtgggc ctgattcgaa cagacgcctc cgaagagaat agatttctag tctatcgcgt
                                                                             1140
                                                                             1200
     61 tagaccactc cgccaccacg ccttacgtaa tctgtgattg ttgaaagtta ctctcgtgtt
                                                                             1260
     63 acggtctata cgtgaagaat ctacacttga cgagtctcga ggtctggggt cagttagacg
                                                                             1320
     65 gaaatqggag aacaaagaga cttggtgaca ttgcaggcaa ccgggtagat gttgaggtca
     67 ttgatcggac aagattgttg cttcaaaagt aacaggtatt cttttttta atcaacagaa
                                                                             1380
     69 acqttccatq ttcatttgtt aatccaatct atttgtgata gcgtttgatg acaaacaata
                                                                             1440
                                                                             1500
     71 ataatqatgg tetggegget agtgategtt tgtaatgaeg tegteatata teetateact
     73 atacagttgc tttgcacacg cactcacgtc cttcattcgt tgtcttcact atttgatggt
                                                                             1560
     75 gatttggttc aacaacctac agaaataatg acctgtggtg ttctccgaat atggctagac
                                                                             1620
     77 caacacaagc ttgtaccgcg gcattcaaat caccatgtga tgcccatcat cagatcatcc
                                                                             1680
```

```
79 accaacccaa aaacagacca actactcaca aaaaggcatc tcatcaagaa aaaacggcca
                                                                        1740
81 actaacgtcc aaaaggcccg aaaaacgtcc atcacgccgc agccgagact tcaatagact
                                                                        1800
83 gcacaagaag gaccgatgag atcgaccaga ctaaacccgg gagagtgtca aatatgcggg
                                                                        1860
85 ggattgggga acttacccca gaaaagagaa ggaggataaa ttccatgtct ggggttgacg
                                                                        1920
87 tctctattgg ttagacacga acgcctgctc tcggcgtaat ttataccata gcgccaatga
                                                                        1980
                                                                        2040
89 qqqcqqaaac tcctqttttg tcaagtcgtc attgttggtt gggtcatgat atatagccag
                                                                        2100
91 tagqtatccq tcttggtgat tgaccagaca tatcgctcat cacagatcaa catcactgct
                                                                        2112
93 atcaccaaca tq
96 <210> SEQ ID NO: 2
97 <211> LENGTH: 2096
98 <212> TYPE: DNA
99 <213> ORGANISM: Fusarium venenatum
101 <400> SEQUENCE: 2
102 cctcacccat ctcaacacct gtcgtgtgct cacttgacta cttctttgaa ccagctcgcc
                                                                           60
104 atcggactag tcgaacaagc ttgtcgcccc catacagatg aatgtatgtt taaagctaca
                                                                          120
106 tgatcagcct gaaccgagca taactcgagt gccgagactc ctctgatgta tatcgagatg
                                                                          180
108 aatgacaaac ctacgggtcc gttcttgaga agtggcctga gatttctcac ttggtgagaa
                                                                          240
                                                                          300
110 aaaqqacqgg cqagcqggag cctgagtcag aagaaatacc tgtctccttg gatctcacat
                                                                          360
112 gacggtgttg tggaagagtg catctattgt cattgctgga gtgacggcag agtaggggtc
114 taaagaaacc catactgagt agagatggag aagacaacaa aagcccaaga cgacagagac
116 gacagaagat taaagctatc agagcgagac tatatcacta ttcgaaacct gcgagtaatt
                                                                          480
                                                                          540
118 taacaagaag tacacatcat cattgttatc aattcgacga agacatggtc gaaaattctt
120 gcgqtqtata tgtctgttgt atatgggcct gggcattgtt atttttcgcc gtctttatgt
                                                                          600
                                                                          660
122 qtactaacac ttccattgat accccagaac aaaagatgaa cgcttaaaca gcaccaaaat
124 caggagaaga atggcgctgc tctaggtatg cttctgggat aaaaagcgat gttgatacct
                                                                          720
                                                                          780
126 ctcaqaaaaq aaqtqatttq aaqttqaatc aaacaaataq ccgatggagc gatctgaagg
                                                                          840
128 qqtqqcaqac ctqctacqcg catttaggca aggcatcaac tcggcagatg attaagaaag
                                                                          900
130 qttttqtagq ttcacqtqtt gtgttgtgtt ccattataag tttataacct tgctaagatg
                                                                          960
132 caacqactct gacctcaggg tgttagaaaa attgaccact aggagcataa gtgacgaaat
134 teggggatea agacaataga tagttteatt tteatgtget cetaegtett tteaegtaat
                                                                         1020
136 gtttcttata aaaaaaaaga tagcattgtc tctttggtga aaagagaaaa aaagatgtta
                                                                         1080
138 cgacgtgggc ctgattcgaa cagacgcctc cgaagagaat agatttctag tctatcgcgt
                                                                         1140
                                                                         1200
140 tagaccactc cgccaccacg ccttacgtaa tctgtgattg ttgaaagtta ctctcgtgtt
142 acqqtctata cgtqaagaat ctacacttga cgagtctcga ggtctggggt cagttagacg
                                                                         1260
144 gaaatgggag aacaaagaga cttggtgaca ttgcaggcaa ccgggtagat gttgaggtca
146 ttgatcggac aagattgttg cttcaaaagt aacaggtatt cttttttta atcaacagaa
                                                                         1380
148 acqttccatq ttcatttgtt aatccaatct atttgtgata gcgtttgatg acaaacaata
                                                                         1440
150 ataatgatgg totggoggot agtgatogtt tgtaatgacg togtoatata tootatoact
                                                                         1500
152 atacagttgc tttgcacacg cactcacgtc cttcattcgt tgtcttcact atttgatggt
                                                                         1560
                                                                         1620
154 gatttggttc aacaacctac agaaataatg acctgtggtg ttctccgaat atggctagac
156 caacacaage ttgtacegeg geatteaaat caccatgtga tgeccateat cagateatee
                                                                         1680
158 accaacccaa aaacagacca actactcaca aaaaggcatc tcatcaagaa aaaacggcca
                                                                         1740
160 actaacgtcc aaaaggcccg aaaaacgtcc atcacgccgc agccgagact tcaatagact
                                                                         1800
162 gcacaagaag gaccgatgag atcgaccaga ctaaaccatg cggggggattg gggaacttac
                                                                         1860
164 cccaqaaaag agaaggagga taaattccat gtctggggtt gacgtctcta ttggttagac
                                                                         1920
166 acquacqcct gctctcggcg taatttatac catagcgcca atgagggcgg aaactcctgt
                                                                         1980
168 tttgtcaagt cqtcattgtt ggttgggtca tgatatatag ccagtaggta tccgtcttgg
                                                                         2040
                                                                         2096
170 tgattqacca gacatatcgc tcatcacaga tcaacatcac tgctatcacc aacatg
173 <210> SEO ID NO: 3
```

	<211> LENGTH: 2112					
	<212> TYPE: DNA	·				
	<213> ORGANISM: Fusari	lum venenati	1 <b>m</b>			
	<400> SEQUENCE: 3					
	cctcacccat ctcaacacct					60
	atcggactag tcgaacaagc					120
	tgatcagcct gaaccgagca					180
	aatgacaaac ctacgggtcc					240
	aaaggacggg cgagcgggag					300
	gacggtgttg tggaagagtg					360
	taaagaaacc catactgagt					420
	gacagaagat taaagctatc					480
	taacaagaag tacacatcat					540
	gcggtgtata tgtctgttgt					600
	gtactaacac ttccattgat					660
	caggagaaga atggcgctgc					720
	ctcagaaaag aagtgatttg					780.
	ggtggcagac ctgctacgcg					840
207	gttttgtagg ttcacgtgtt	gtgttgtgtt	ccattataag	tttataacct	tgctaagatg	900
209	caacgactct gacctcaggg	tgttagaaaa	attgaccact	aggagcataa	gtgacgaaat	960
	tcggggatca agacaataga					1020
	gtttcttata aaaaaaaga					1080
215	cgacgtgggc ctgattcgaa	cagacgcctc	cgaagagaat	agatttctag	tctatcgcgt	1140
217	tagaccactc cgccaccacg	ccttacgtaa	tctgtgattg	ttgaaagtta	ctctcgtgtt	1200
219	acggtctata cgtgaagaat	ctacacttga	cgagtctcga	ggtctggggt	cagttagacg	1260
221	gaaatgggag aacaaagaga	cttggtgaca	ttgcaggcaa	ccgggtagat	gttgaggtca	1320
223	ttgatcggac aagattgttg	cttcaaaagt	aacaggtatt	cttttttta	atcaacagaa	1380
225	acgttccatg ttcatttgtt	aatccaatct	atttgtgata	gcgtttgatg	acaaacaata	1440
227	ataatgatgg tctggcggct	agtgatcgtt	tgtaatgacg	tcgtcatata	tcctatcact	1500
229	atacagttgc tttgcacacg	cactcacgtc	cttcattcgt	tgtcttcact	atttgatggt	1560
231	gatttggttc aacaacctac	agaaataatg	acctgtggtg	ttctccgaat	atggctagac	1620
233	caacacaagc ttgtaccgcg	gcattcaaat	caccatgtga	tgcccatcat	cagatcatcc	1680
235	accaacccaa aaacagacca	actactcaca	aaaaggcatc	tcatcaagaa	aaaacggcca	1740
237	actaacgtcc aaaaggcccg	aaaaacgtcc	atcacgccgc	agccgagact	tcaatagact	1800
239	gcacaagaag gaccgatgag	atcgaccaga	ctaaacccgg	gagagtgtca	aatatgcggg	1860
	ggattgggga acttacccca					1920
243	tctctattgg ttagacacga	acgcctgctc	tcggcgtaat	ttcggccata	gcgccaatga	1980
	gggcggaaac tcctgttttg					2040
	taggtatccg tcttggtgat					2100
	atcaccaaca tg	-				2112
	<210> SEQ ID NO: 4					
253	<211> LENGTH: 2096					
254	<212> TYPE: DNA					
255	<213> ORGANISM: Fusar:	ium venenatı	mL			
	<400> SEQUENCE: 4					
	cctcacccat ctcaacacct	gtcqtqtqct	cacttgacta	cttctttqaa	ccagctcgcc	60
	atcggactag tcgaacaagc					120
	tgatcagcct gaaccgagca					180
	aatgacaaac ctacgggtcc					240
	J	5 -5-5-	5 55 5	-	22 2 2	

266	aaaggacggg	cgagcgggag	cctgagtcag	aagaaatacc	tgtctccttg	gatctcacat	300
268	gacggtgttg	tggaagagtg	catctattgt	cattgctgga	gtgacggcag	agtaggggtc	360
270	taaagaaacc	catactgagt	agagatggag	aagacaacaa	aagcccaaga	cgacagagac	420
272	gacagaagat	taaagctatc	agagcgagac	tatatcacta	ttcgaaacct	gcgagtaatt	480
274	taacaagaag	tacacatcat	cattgttatc	aattcgacga	agacatggtc	gaaaattctt	540
276	gcggtgtata	tgtctgttgt	atatgggcct	gggcattgtt	atttttcgcc	gtctttatgt	600
278	gtactaacac	ttccattgat	accccagaac	aaaagatgaa	cgcttaaaca	gcaccaaaat	660
280	caggagaaga	atggcgctgc	tctaggtatg	cttctgggat	aaaaagcgat	gttgatacct	720
282	ctcagaaaag	aagtgatttg	aagttgaatc	aaacaaatag	ccgatggagc	gatctgaagg	780
			catttaggca				840
286	gttttgtagg	ttcacgtgtt	gtgttgtgtt	ccattataag	tttataacct	tgctaagatg	900
288	caacgactct	gacctcaggg	tgttagaaaa	attgaccact	aggagcataa	gtgacgaaat	960
			tagtttcatt				1020
292	gtttcttata	aaaaaaaga	tagcattgtc	tctttggtga	aaagagaaaa	aaagatgtta	1080
294	cgacgtgggc	ctgattcgaa	cagacgcctc	cgaagagaat	agatttctag	tctatcgcgt	1140
296	tagaccactc	cgccaccacg	ccttacgtaa	tctgtgattg	ttgaaagtta	ctctcgtgtt	1200
298	acggtctata	cgtgaagaat	ctacacttga	cgagtctcga	ggtctggggt	cagttagacg	1260
			cttggtgaca				1320
302	ttgatcggac	aagattgttg	cttcaaaagt	aacaggtatt	cttttttta	atcaacagaa	1380
			aatccaatct				1440
			agtgatcgtt				1500
			cactcacgtc				1560
			agaaataatg				1620
			gcattcaaat				1680
			actactcaca				1740
			aaaaacgtcc				1800
			atcgaccaga				1860
			taaattccat				1920
			taatttcggc				1980
			ggttgggtca				2040
			tcatcacaga	tcaacatcac	tgctatcacc	aacatg	2096
	<210> SEQ 1						
	<211> LENGT						
	<212> TYPE:						
			ium venenatı	mı			
	<400> SEQUE						
			gtcgtgtgct				60
			ttgtcgcccc				120
			taactcgagt				180
			gttcttgaga				240
						gatctcacat	300
			catctattgt				360
			agagatggag				420
			agagcgagac				480
			cattgttatc				540
			atatgggcct				600
			accccagaac				660
			tctaggtatg				720
359	cccagaaaag	aagtgatttg	aagttgaatc	aaacaaatag	ccgatggagc	gatetgaagg	780

361	ggtggcagac	ctgctacgcg	catttaggca	aggcatcaac	tcggcagatg	attaagaaag	840
363	gttttgtagg	ttcacgtgtt	gtgttgtgtt	ccattataag	tttataacct	tgctaagatg	900
365	caacgactct	gacctcaggg	tgttagaaaa	attgaccact	aggagcataa	gtgacgaaat	960
36 <b>7</b>	tcggggatca	agacaataga	tagtttcatt	ttcatgtgct	cctacgtctt	ttcacgtaat	1020
369	gtttcttata	aaaaaaaga	tagcattgtc	tctttggtga	aaagagaaaa	aaagatgtta	1080
371	cgacgtgggc	ctgattcgaa	cagacgcctc	cgaagagaat	agatttctag	tctatcgcgt	1140
373	tagaccactc	cgccaccacg	ccttacgtaa	tctgtgattg	ttgaaagtta	ctctcgtgtt	1200
375	acggtctata	cgtgaagaat	ctacacttga	cgagtctcga	ggtctggggt	cagttagacg	1260
377	gaaatgggag	aacaaagaga	cttggtgaca	ttgcaggcaa	ccgggtagat	gttgaggtca	1320
379	ttgatcggac	aagattgttg	cttcaaaagt	aacaggtatt	ctttttttta	atcaacagaa	1380
	acgttccatg						1440
383	ataatgatgg	tctggcggct	agtgatcgtt	tgtaatgacg	tcgtcatata	tcctatcact	1500
385	atacagttgc	tttgcacacg	cactcacgtc	cttcattcgt	tgtcttcact	atttgatggt	1560
387	gatttggttc	aacaacctac	agaaataatg	acctgtggtg	ttctccgaat	atggctagac	1620
389	caacacaagc	ttgtaccgcg	gcattcaaat	caccatgtga	tgcccatcat	cagatcatcc	1680
391	accaacccaa	aaacagacca	actactcaca	aaaaggcatc	tcatcaagaa	aaaacggcca	1740
393	actaacgtcc	aaaaggcccg	aaaaacgtcc	atcacgccgc	agccgagact	tcaatagact	1800
	gcacaagaag						1860
	ggattgggga						1920
	tctctattgg						1980
	gggcggaaac						2040
403	taggtatccg	tcttggtgat	tgaccagaca	tatcgctcat	cacagatcaa	catcactgct	2100
	atcaccaaca	-					2112
408	<210> SEQ I	ID NO: 6					
409	<211> LENGT	TH: 2101					
409 410	<211> LENGT <212> TYPE:	TH: 2101 DNA					
409 410 411	<211> LENGT <212> TYPE: <213> ORGAN	TH: 2101 DNA JISM: Fusari	ium venenatı	ım			
410 411 413	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE	TH: 2101 DNA NISM: Fusari ENCE: 6					
409 410 411 413 414	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat	TH: 2101 DNA JISM: Fusari ENCE: 6 ctcaacacct	gtcgtgtgct	cacttgacta			60
410 411 413 414 416	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat atcggactag	TH: 2101 DNA JISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc	gtcgtgtgct ttgtcgcccc	cacttgacta catacagatg	aatgtatgtt	taaagctaca	120
410 411 413 414 416 418	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat atcggactag tgatcagcct	TH: 2101 DNA UISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca	gtcgtgtgct ttgtcgcccc taactcgagt	cacttgacta catacagatg gccgagactc	aatgtatgtt ctctgatgta	taaagctaca tatcgagatg	120 180
409 410 411 413 414 416 418 420	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga	cacttgacta catacagatg gccgagactc agtggcctga	aatgtatgtt ctctgatgta gatttctcac	taaagctaca tatcgagatg ttggtgagaa	120 180 240
409 410 411 413 414 416 418 420 422	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaaggacggg</pre>	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc	aatgtatgtt ctctgatgta gatttctcac tgtctccttg	taaagctaca tatcgagatg ttggtgagaa gatctcacat	120 180 240 300
409 410 411 413 414 416 418 420 422 424	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcaccat atcggactag tgatcagcct aatgacaaac aaaggacggg gacggtgttg	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc	120 180 240 300 360
409 410 411 413 414 416 418 420 422 424 426	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcaccat atcggactag tgatcagct aatgacaaac aaaggacggg gacggtgttg taaagaaacc	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac	120 180 240 300 360 420
409 410 411 413 414 416 418 420 422 424 426 428	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcaccat atcggactag tgatcagct aatgacaaac aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt	120 180 240 300 360 420 480
409 410 411 413 414 416 418 420 422 424 426 428 430	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag</pre>	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt	120 180 240 300 360 420 480 540
409 410 411 413 414 416 418 420 422 424 426 428 430 432	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcaccat atcggactag tgatcagct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata</pre>	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatggcct	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt	120 180 240 300 360 420 480 540
409 410 411 413 414 416 418 420 422 424 426 428 430 432 434	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcaccat atcggactag tgatcagct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac</pre>	TH: 2101 DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatgggcct accccagaac	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc atttttcgcc cgcttaaaca	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat	120 180 240 300 360 420 480 540 600
409 410 411 413 414 416 418 420 422 424 426 428 430 432 434 436	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagagaaga</pre>	TH: 2101 DNA DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatggcct accccagaac tctaggtatg	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaagcgat	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct	120 180 240 300 360 420 480 540 600 660 720
409 410 411 413 414 416 418 420 422 424 426 428 430 432 434 436 438	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaag</pre>	TH: 2101 DNA DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgattg	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatgggcct accccagaac tctaggtatg agttgaatc	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aacaaatag	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc atttttcgcc cgcttaaaca aaaaagcgat ccgatggagc	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg	120 180 240 300 360 420 480 540 600 660 720 780
409 410 411 413 414 416 418 420 422 424 426 428 430 432 434 436 438 440	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaag ggtggcagac</pre>	TH: 2101  DNA  JISM: Fusari ENCE: 6  ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctgctacgcg	gtcgtgtgct ttgtcgcccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatgggcct accccagaac tctaggtatg aggtgaatc cattatgcc	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aagcaacaa	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaagcgat ccgatggagc tcggcagatg	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaaag	120 180 240 300 360 420 480 540 600 660 720 780 840
409 410 411 413 414 416 418 420 422 424 426 438 430 432 434 436 438 440 442	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaag gttggcagac gttttgtagg</pre>	TH: 2101 DNA DNA DISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctgctacgcg ttcacgtgtt	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatgggct acccagaac tctaggtatg aagttgaatc catttaggca gtgttgttt	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aagcaacaa catacagatgaa ctctgggat aagcaacaa cacaaatag	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaagcgat ccgatggagc tcggcagatg tttataacct	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaaag tgctaagatg	120 180 240 300 360 420 480 540 660 720 780 840 900
409 410 411 413 414 416 418 420 422 424 426 438 430 432 434 436 438 440 442	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaaa gttagaaaag gttagaaaag gttagaaaag gcgtgtata</pre>	TH: 2101  DNA  JISM: Fusari ENCE: 6  ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atgccgctgc aagtgatttg ctgctacgcg ttcacgtgtt gacctcaggg	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatgggcct accccagaac tctaggtatg aagttgaatc catttaggca gtgttgttt tgttagaaaa	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aacaaatag aggcatcaac ccattataag attgaccact	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaagcgat ccgatggagc tcggcagatg tttataacct aggagcataa	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaaag tgctaagatg gtgacgaaat	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
409 410 411 413 414 416 418 420 422 424 426 438 430 432 434 436 442 444 446	<pre>&lt;211&gt; LENGT &lt;212&gt; TYPE: &lt;213&gt; ORGAN &lt;400&gt; SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaaa gttggcagac gttttgtagg caacgactct tcggggatca</pre>	TH: 2101  DNA  JISM: Fusari ENCE: 6  ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctacacgcg tgaagtgattg tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctgctacgcg ttcacgtgtt gacctcaggg agacaataga	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatgggcct accccagaac tctaggtatg aggttgatc cattaggca gtgttgtt tgttagaaaa tagttcatt	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aacaaatag aggcatcaac ccattataag attgaccact ttcatgtgct	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaagcgat ccgatggagc tcggcagatg tttataacct aggagcataa cctacgtctt	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaaag tgctaagatg gtgacgaaat ttcacgtaat	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020
409 410 411 413 414 416 428 420 424 426 430 432 434 436 438 440 442 444 446 448	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaag ggtggcagac gttttgtagg caacgactct tcggggatca gtttcttata	TH: 2101  DNA  JISM: Fusari ENCE: 6  ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctgctacgcg tgacctcaggg agacaataga aaaaaaaaga	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatggcct accccagaac tctaggtatg aggttgatc catttagca gtgttgtt tgttagaaaa tagttcatt tagcattgtc	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aacaaatag aggcatcaac ccattataag attgaccact ttcatgtgct	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaaagcgat ccgatggagc tcggcagatg tttataacct aggagcataa cctacgtctt aaagagaaaa	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaagg tgctaagatg gtgacgaaat ttcacgtaat aaagatgtta	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080
409 410 411 413 414 416 428 424 426 430 432 434 436 438 440 442 444 446 448 450	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaag ggtggcagac gttttgtagg caacgactct tcggggatca gtttcttata cgacgtggc	TH: 2101  DNA  JISM: Fusari ENCE: 6  ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctgctacgcg ttcacgtgtt gacctcaggg agacaataga aaaaaaaaga ctgattcgaa	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatggcct accccagaac tctaggtatg agttgatc atttagca tctaggtatt tgttagaaaa tagtttcatt tagcattgtc cagacgctc	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aaacaaatag aggcatcaac ccattataag attgaccact ttcatgtgct tctttggtga cgaagagaat	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc attttcgcc cgcttaaaca aaaagcgat ccgatggagc tcggcagatg tttataacct aggagcataa cctacgtctt aaagagaaaa agatttctag	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaaag tgctaagatg gtgacgaaat ttcacgtaat aaagatgtta tctatcgcgt	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140
409 410 411 413 414 416 422 424 426 430 432 434 436 438 440 442 444 446 448 450 452	<211> LENGT <212> TYPE: <213> ORGAN <400> SEQUE cctcacccat atcggactag tgatcagcct aatgacaaac aaaggacggg gacggtgttg taaagaaacc gacagaagat taacaagaag gcggtgtata gtactaacac caggagaaga ctcagaaaag ggtggcagac gttttgtagg caacgactct tcggggatca gtttcttata	TH: 2101 DNA JISM: Fusari ENCE: 6 ctcaacacct tcgaacaagc gaaccgagca ctacgggtcc cgagcgggag tggaagagtg catactgagt taaagctatc tacacatcat tgtctgttgt ttccattgat atggcgctgc aagtgatttg ctgctacgcg ttcacgtgtt gacctcaggg agacaataga aaaaaaaaga ctgattcgaa cgccaccacg	gtcgtgtgct ttgtcgccc taactcgagt gttcttgaga cctgagtcag catctattgt agagatggag agagcgagac cattgttatc atatggcct accccagaac tctaggtatg aagttgaatc catttaggca gtgttgtt tgttagaaaa tagttcatt tagcattgtc cagacgctc ccttacgtaa	cacttgacta catacagatg gccgagactc agtggcctga aagaaatacc cattgctgga aagacaacaa tatatcacta aattcgacga gggcattgtt aaaagatgaa cttctgggat aaacaaatag aggcatcaac ccattataag attgaccact ttcatgtgct tctttggtga cgaagagaat tctgtgattg	aatgtatgtt ctctgatgta gatttctcac tgtctccttg gtgacggcag aagcccaaga ttcgaaacct agacatggtc atttttcgcc cgcttaaaca aaaagcgat ccgatggagc tcggcagatg tttataacct aggagcataa cctacgtctt aaagagaaaa agatttctag ttgaaagtta	taaagctaca tatcgagatg ttggtgagaa gatctcacat agtaggggtc cgacagagac gcgagtaatt gaaaattctt gtctttatgt gcaccaaaat gttgatacct gatctgaagg attaagaagg tgctaagatg gtgacgaaat ttcacgtaat aaagatgtta tctatcgcgt ctctcgtgtt	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080

VERIFICATION SUMMARY

. . . .

DATE: 02/17/2006 TIME: 15:06:38

PATENT APPLICATION: US/10/716,793A

Input Set : A:\10351.200 SQ List.txt Output Set: N:\CRF4\02172006\J716793A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date